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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,402	10/31/2003	Man Soo Han	51876P399	3288
8791 DI AKELA CO	7590 11/20/2007	EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY			PATEL, CHANDRAHAS B	
SUNNYVALE	, CA 94085-4040		ART UNIT	PAPER NUMBER
			2616	
			MAIL DATE	DELIVERY MODE
			11/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summany		10/699,402	HAN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Chandrahas Patel	2616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖾 🛚	Responsive to communication(s) filed on 24 Se	eptember 2007.					
, —	This action is FINAL. 2b) This action is non-final.						
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
4) 🗌 (Claim(s) is/are pending in the application	n.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)区	6)⊠ Claim(s) <u>1-12</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8) 🔲 (Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment	(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Inform	e of Draftsperson's Patent Drawing Review (P10-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) Notice of Informal P					

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DETAILED ACTION

Response to Amendment

1. Applicant's arguments filed 9/24/2007 have been fully considered but they are not persuasive. Oki et al. teaches the amended feature of claim 1, "producing contention results based on only the request signals received at initiation of the contention process, and wherein each VOQ sends a plurality of request signals for one cell to the plurality of sub-scheduling means" as discussed below.

Claim Rejections - 35 USC § 102

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Oki et al. (USPN 7,006,514).

Regarding claim 1, Oki teaches an input buffered switch using pipelined simple matching [Fig. 1, 100], comprising: a plurality of input means [Fig. 1, 110], each having a plurality of Virtual Output Queues (VOQs) for sending a request signal in every time slot when each VOQ has at least one cell [Fig. 1, 115], for outputting the cell according to a grant signal transmitted to each VOQ [Col. 5, lines 3-6]; a scheduling means for executing a contention process according to the request signals from each VOQ of the plurality of input means [Fig. 1, 120], sending contention results to the plurality of input means and sending switch operation information [Col. 5, lines 39-50]; and a switching means for outputting the cell received from the plurality of input means responsive to the switch operation information received from the scheduling means [Fig. 1, 130], and wherein the scheduling means includes a plurality of sub-

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scheduling means for I) executing a contention process for a plurality of time slots according to the request signals from each VOQ of the plurality of the input means such that one of the subscheduler means begins executing the contention process and a second one of the sub-scheduler means finishes executing the contention process [Col. 5, lines 11-18, arbitration process is the contention process, Request flag in shown at Fig. 2, 224], and II) producing contention results based on only the request signals received at initiation of the contention process [Col. 7, lines 4-10, request signals are generated in parallel suggesting that only one request signal is necessary at the start of arbitration process], and wherein each VOQ sends a plurality of request signals for one cell to the plurality of sub-scheduling means [Col. 8, lines 35-39, cells are being matched by subscheduler 1 and subscheduler 0 simultaneously].

Regarding claims 2 and 5, Oki teaches a multiplexing means for multiplexing a contention result of each sub-scheduling means to the plurality of input means [Col. 5, lines 62-67 - Col. 6, lines 1-3].

Regarding claims 3 and 9, Oki teaches sub-scheduling means gives priorities to each of the input means in case of the contention process to the same output [Col. 7, lines 13-16].

Regarding claims 4 and 10, Oki teaches each sends the request signal at every time slot by sending the number of cells waiting in the VOQ to the scheduling means [Col. 5, lines 39-50].

Regarding claims 6 and 11, Oki teaches sub-scheduling means gives a priority to the VOQ that has the largest number of awaiting cells in the VOQ in case of the contention process to the same output [Col. 6, lines 46-48, by serving request counter scheduler gives priority to longest VOQ].

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Regarding claims 7 and 12, Oki teaches each sub-scheduling means gives a priority to each VOQ in the contention process to the same output [Col. 7, lines 13-16] and gives a priority to a VOQ that has the largest number of awaiting cells in the VOQ when the VOQ having the priority does not send the request signal [Col. 6, lines 46-52, reference teaches these management responsibilities can be run periodically and does not teach that VOQ is sending a signal having the priority].

Regarding claim 8, Oki teaches a contention method using pipelined simple matching in an input buffered switch [Abstract], comprising the steps of: a) at each VOQ that has at least one awaiting cell, sending a request signal to a sub-scheduling means that begins a contention process at every time slot [Col. 5, lines 11-18, arbitration process is the contention process]; b) at the sub-scheduling means, executing a contention process for a plurality of time slots according to the request signals from each VOQ that has at least one awaiting cell [Col. 5, lines 11-18, Request flag is shown in Fig. 2, 224]; c) at the sub-scheduling means that finishes the contention process, sending a contention result to each input means at every time slot [Col. 5, lines 62-67 - Col. 6, lines 1-3]; and d) at the transfer-granted VOQ, transferring the cell to the switching means according to the contention result [Fig. 1, 130], wherein the contention results are produced based on only the request signals received at initiation of the contention process in the sub-scheduling means [Col. 7, lines 4-10, request signals are generated in parallel suggesting that only one request signal is necessary at the start of arbitration process], and wherein each VOO sends a plurality of request signals of one cell to a plurality of the subscheduling means [Col. 8, lines 35-39, cells are being matched by subscheduler 1 and subscheduler 0 simultaneously].

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Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrahas Patel whose telephone number is 571-270-1211. The examiner can normally be reached on Monday through Thursday 7:30 to 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CBP

SUPERVISORY PATENT EXAMINER